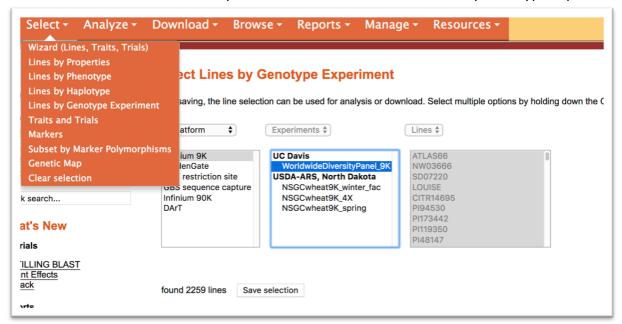
Flapjack is a visualization and analysis program for genotype data. The software is provided by The James Hutton Institute (JHI) and runs on Windows, Linux and MacOS. The program is available from Flapjack Download. Data from T3 website can be accessed by

- 1. Saving from T3 then importing into Flapjack or
- 2. Using BrAPI to import directly into Flapjack

Requirements: Flapjack allows importing genotype, map, and phenotype files.

## Download data from T3 website then import the data into Flapjack

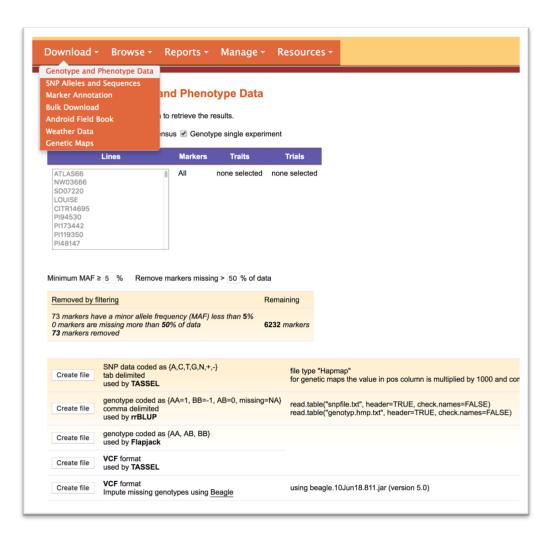
1. The data can be selected by Select => Wizard or Select => Lines by Genotype Experiment



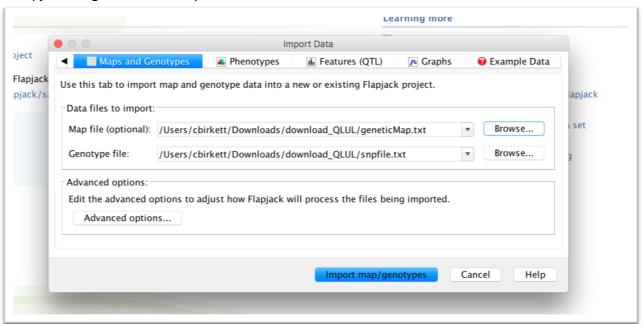
## 2. Go to Select => Genetic Map

## **Map Sets** This table lists the total markers in each map. If a marker is not in the the selected map set then it will be assigned to ch markers markers (in selected lines) select map set name comment (select item for complete te (total) 877 Aegilops tauschii, 2009 From Luo et al, (2009) PNAS 106(37 Bin map of Synthetic W9784 x Opata SynOp GBS BinMap, 2012 19720 SynOp GBS AntMap, 2012 Genetic linkage map of Synthetic W9 $\bigcirc$ 1625 KleinProteo x KleinChaja, 2012 Contacts: Jorge Dubcovsky, Luxmi To wsnp 2013 Consensus 3503 Consensus wsnp map from C.R. Cav 38832 90K Array Consensus From: Wang et. al. (2014) Characteri: A genetic map created by locating the 125340 CSS POPSEQ 2014 A physical map of GBS markers start 3393777 CSS GBS 2014 RefSeq v1.0 168455 A physical map from IWGSC RefSeq Chromosome Survey Sequence, A physical map from the Chromosom 145004

- 3. Go to Download => Genotype and Phenotype Data Select Flapjack format
- 4. Select "Create File"



5. In Flapjack Program select "Import Data"

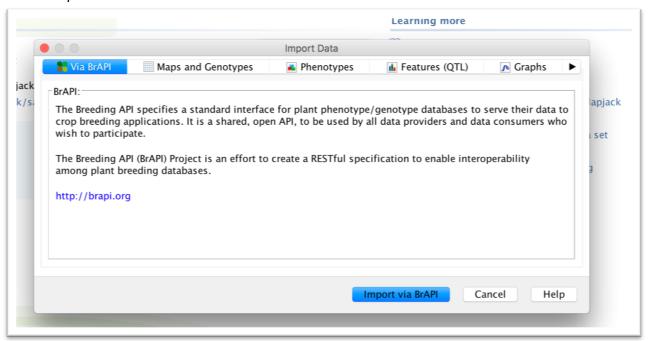


- 6. On the "Map file" line select "GeneticMap.txt" file.
- 7. On the "Genotype file" line select "Browse" then select the "snpfile.txt" file.

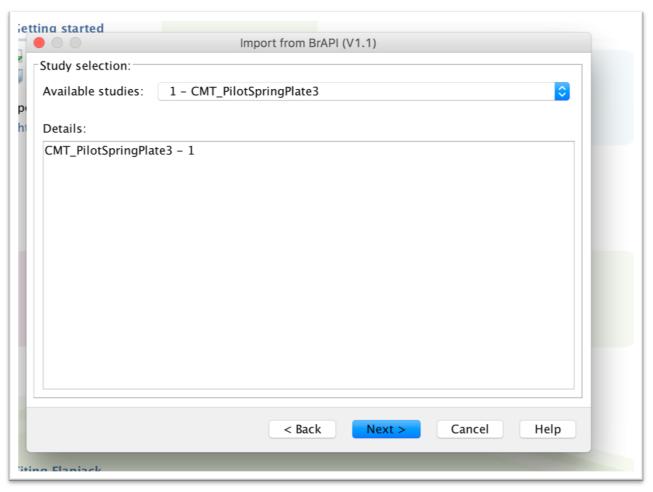


## Use BrAPI to directly import data from T3 into Flapjack

- 1. In Flapjack Program select "Import Data" then select left arrow so Via BrAPI is visible.
- 2. Select "Import via BrAPI"



- 3. In the Category select "Triticeae Toolbox, The" then "Next" then "Next" again.
- 4. Select from the list of studies then "Next"



- 5. Select from the list of Maps then "Next"
- 6. The Importing data step may take several minutes for large studies or maps.